

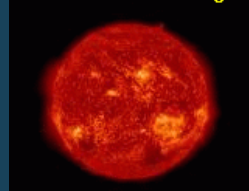


Repeater: NØDX 145.190 MHz (Input 144.590 / Tone 192.8 Hz)


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Solar-Terrestrial Data

09 Jul 2023 0311 GMT
 SFI: 161 SN: 197
 A-Index: 8
 K-Index: 1
 X-Ray: C1.6
 304A: 145.5 @ SEM
 Ptn Flx: 15
 Elc Flx: 1080
 Aurora: 1/n=1.99
 Mag (Bz): 4.0
 Solar Wind: 363.6
 Geomag Field VR QUIET
 Sig Noise Lvl S0-S1
 Current Solar Image



<http://www.n0nbh.com>
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Solar data courtesy of:
 Solar Data Banners & Widgets

1800

The Eastern Iowa DX Bulletin

For July 7, 2023 to July 14, 2023

Craig Fastenow, KØCF, Editor

This bulletin is a compilation of **currently active** DX operations (or those that will become active within the current week) from recent issues of the three DX bulletins listed below and other sources. Credit for the source is given at the end of each article. The articles are ordered by the entity's *official* callsign prefix, callsigns used are in **bold**, and dates of operation are highlighted in **red**. Hot links are provided for QSL and other information wherever possible. Articles will remain in *The Bulletin* while active with a 5-week maximum.

DX News items are courtesy of:

The ARRL DX Bulletin

The bulletin is available at <http://www.arrrl.org>

425 DX News, A.R.I. DX Bulletin (425DXN)

Edited by Mauro Pregliasco, I1JQJ & Valeria Pregliasco, IK1ADH

425 DX News Home Page: <https://www.425dxn.org/>

425 DX News Google Group: <https://groups.google.com/g/425eng>

DX Newsletter (DXNL)

Edited by Andreas Salder, DK5ON

A weekly service of DARC Committee "DX", <http://www.darcdxhf.de>

Quick jump to:

[Propagation](#)

[Contest Calendar](#)

3C, EQUATORIAL GUINEA. Ersoy, TA2OM, continues his stay on Bioco Island (AF-010) for another two months and continues to operate as **3C3CA**. QSL via LoTW, [ClubLog's QQRS](#).

-[DXNL # 2359 June 21, 2023] (0623-0728)

3D2/R, ROTUMA. Previously active from Guam (AH2/WA7WJR), the Northern Mariana Islands (AHØ/WA7WJR), and more recently from Pohnpei, Micronesia (V63WJR), "BJ", WA7WJR has been QRV as **3D2BJ** from Rotuma (OC-060) since July 3rd. He plans to remain there until July 10th-11th, and then set sail for Viti Levu, Fiji. He operates mainly FT8 and CW primarily on 17-10 meters. QSL via LoTW or direct to [WA7WJR](#); cards will be sent out when he returns to the US sometime in September. You can follow his voyages: <https://www.questsofdiscovery.com/> (click on "Where Am I?").

-[425DXN # 1679 July 8, 2023] (0707-0714)

4W, TIMOR LESTE. Vasily, R7AL, Mike, RU3UR and Anastasya, R6DTO are QRV as **4W6RU** from near Dili until July 20th. QSL via [R7AL](#), [ClubLog's QQRS](#), LoTW.

-[ARRL DX Bulletin # 27 July 6, 2023] (0707-0721)

7P, LESOTHO. Schalk A22LL (ZS1LL) has moved to Lesotho and now operates as **7P8LL**. QRV on 80 and 40m with dipole, on 20, 15, and 10m with a delta loop, and on 6m with a

5 element Yagi. QSL via [EA7FTR](#), LoTW.
-[DXNL # 2359 June 21, 2023] (0623-0714)

7Q, MALAWI. Don, K6ZO is QRV as **7Q6M** from the Embangweni Mission Hospital in northern Malawi **until possibly the end of July**. Activity is in his spare time with a special emphasis on 6 meters. QSL direct to [WØMAN](#).
-[ARRL DX Bulletin # 26 June 29, 2023] (0630-0728)

7Q, MALAWI. Eddy, OE3SEU, will be active as **7Q5SE** from **June 17th or 18th onwards**. QRV mostly via QO-100 on SSB. QSL via LoTW only.
-[DXNL # 2359 June 21, 2023] (0623-0714)

8Q, MALDIVES. Bert, CX3AN will be active holiday style as **8Q7HU** from the Maldives (AS-013) on **July 11-18**. He will be QRV on 40-6 meters. QSL via [EB7DX](#).
-[425DXN # 1677 June 24, 2023] (0707-0721)

9A, CROATIA. Special event station **9A15ØTESLA** is QRV **during July** to celebrate the 150th anniversary of Nikola Tesla's high school education. QSL direct to [9A7R](#).
-[ARRL DX Bulletin # 26 June 29, 2023] (0630-0728)

9J, ZAMBIA. Eddy, OE3SEU is mostly active on the QO-100 satellite, using the call sign **9J2SEU/p**, from grids KH55, KH56, KH43 and KH45. When there are many callers he goes split and by call sign number, starting with zero. QSL via LoTW.
-[ARRL DX Bulletin # 27 July 6, 2023] (0707-0728)

9Q, DEM. REP. OF THE CONGO. Originally scheduled for September, the Italian DXpedition Team's operation from the Democratic Republic of the Congo has been brought forward by two months. **9Q1AA** (SSB, CW, RTTY) and **9Q1ZZ** (FT8 F/H) will now be active on **July 6th-18th** with four stations. See <http://www.i2ysb.com/idx> for the band plan. QSL direct to [I2YSB](#) (real-time online log and OQRS on <http://win.i2ysb.com/logonline>).
-[425DXN # 1679 July 8, 2023] (0707-0721)

BV, TAIWAN. BW2/JP1RIW is active as **BMØQSO** **until December 31st**, using mostly digital modes. QSL via [BM2JCC](#).
-[ARRL DX Bulletin # 27 July 6, 2023] (0707-0804)

C2, NAURU. Phill, 3D2TS (FK1TS) says that things seem to be on track for **C21TS** to be active again **sometime in July**. If all goes well, this time he might **stay in Nauru for months**. He will be taking two radios and an assortment of wire antennas; his initial focus will be on FT8, with SSB to follow when he gets settled in. Updates will be posted to <https://www.hardstaff.com/> and <https://www.facebook.com/c21ts>.
-[425DXN # 1678 July 1, 2023] (0630-0721)

CE9, ANTARCTICA. Juan, LU8DBS is QRV as **LU8DBS/Z** while on assignment on Esperanza Antarctic Base, IOTA AN-018. QSL via [LU4DXU](#).
-[ARRL DX Bulletin # 25 June 22, 2023] (0623-0714)

DL, GERMANY. Special callsign **DLØSOP** will be active on **July 1st-31st** for the 65th edition of the Sea of Peace Award (see <https://dl0sop.darc.de/> for full details). QSL via [ClubLog's OQRS](#), LoTW, eQSL, or direct to [DL4SVA](#).
-[425DXN # 1677 June 24, 2023] (0630-0804)

DU, PHILIPPINES. Rag, LB3RE is QRV as **DU1/LB3RE** from Luzon Island, IOTA OC-042, **until July 18th**. Activity is on 40 to 6 meters. QSL to [LB3RE](#).
-[ARRL DX Bulletin # 26 June 29, 2023] (0630-0721)

DXCC TOP TWENTY. Here are the top 20 entities on ClubLog's "DXCC Most Wanted" list as of July 7, 2023:

1. P5 DPRK (North Korea) 11. FT5/X Kerguelen Island

2. 3Y/B	Bouvet Island	12. YVØ	Aves Island
3. FT5/W	Crozet Island	13. VKØM	Macquarie Island
4. BS7H	Scarborough Reef	14. ZS8	Prince Edward & Marion Islands
5. CEØX	San Felix Islands	15. KH4	Midway Island
6. BV9P	Pratas Island	16. PYØS	Saint Peter And Paul Rocks
7. KH7K	Kure Island	17. PYØT	Trindade & Martim Vaz Islands
8. KH3	Johnston Island	18. KP5	Desecheo Island
9. 3Y/P	Peter 1 Island	19. VP8S	South Sandwich Islands
10. FT/G	Glorioso Island	20. KH5	Palmyra & Jarvis Islands

For the complete list, see <https://clublog.org/mostwanted.php>

-[KØCF July 7, 2023] (0707-0721)

EA, SPAIN. Look for **EF4HQ** as the URE HQ station during the IARU HF World Championship (**Jul 8th 1200Z to Jul 9th 1200Z**).

-[ARRL DX Bulletin # 27 July 6, 2023] (0707-0714)

ES, ESTONIA. Timo, OH1NOA will be active as **ES1NOA/Ø** from a few Flora & Fauna sites on Hiiumaa Island (EU-034) on **July 9th-12th**. He will operate CW and SSB on 80-10 meters, possibly with some FT8 from his base camp. QSL via [OH1NOA](#). Information about the ESFF (Estonian Flora Fauna) program can be found on <https://www.erau.ee/en/wwff-in-estonia>.

-[425DXN # 1679 July 8, 2023] (0707-0714)

ET, ETHIOPIA. Ulli, DL9WVM is QRV from club station **ET3AA** in Addis Ababa **until July 14th**. He is active between 0630 and 1400 UTC. QSL via [N2OO](#).

-[ARRL DX Bulletin # 23 June 8, 2023] (0609-0714)

F, FRANCE. French special callsigns to be activated for this year's 110th edition of the Tour de France includes **TM11ØTDF** on **July 1st-3rd, 8th, 9th and 14th-23rd** (QSL via [F8GGZ](#)) and **TM33TDF** on **July 8th-9th** (QSL via [F6KUQ](#)).

-[425DXN # 1677 June 24, 2023] (0630-0721)

FJ, SAINT-BARTHELEMY. Frank, K3TRM, is currently active as **FJ/K3TRM** on HF, 6m, and via satellites. He remains on the island **until July 8th**. QSL via [K3TRM](#), OQRS, LoTW.

-[DXNL # 2361 July 6, 2023] (0707-0714)

FP, SAINT PIERRE & MIQUELON. Once again Eric, KV1J will be active as **FP/KV1J** from Miquelon Island (NA-032) from **June 27th to July 11th**, including activity during the Canada Day Contest (July 1st) and the IARU HF World Championship. Plans are to operate primarily SSB and FT8, plus some CW, RTTY and FT4, on 80-6 meters, "generally on the highest frequency band open" with a focus 12, 10 and 6m. QSL via LoTW, [ClubLog's](#) [OQRS](#) and eQSL, or via [KV1J](#). Bookmark <http://www.kv1j.com/fp/July23.html> for updates.

-[425DXN # 1675 June 10, 2023] (0623-0714)

GU, GUERNSEY. The Guernsey Amateur Radio Society will be running special event station **GB5IG** on **July 7th-15th** for the XIX NatWest International Island Games, the "Small Islands Mini Olympics". Look for activity on 80- 10 meters SSB and FT8/FT4, with some CW and some satellite work (QO-100). QSL via LoTW, or direct to [GU8ITE](#). [TNX GUØSUP]

-[425DXN # 1675 June 10, 2023] (0707-0714)

HA, HUNGARY. Sanyi, HA7VK will be operating as **HG23TISZA**, SO/AB/HP only CW, in IARU HF World Championship (**July 8th 1200Z to July 9th 1200Z**).

-[ARRL DX Bulletin # 27 July 6, 2023] (0707-0714)

I, ITALY. Mauro, IW2KVT will be active holiday style as **IH9/IW2KVT** from Pantelleria Island (AF-018) on **July 8th-14th**. He will operate SSB on the HF bands and 6 meters.

-[425DXN # 1679 July 8, 2023] (0707-0714)

I, ITALY. Special callsign **IL3P** will be used from **July 1st to September 30th** from various locations in the Italian region of Veneto. On **July 28th-31st** team IL3P will be active from Pellestrina Island (EU-131), including participation in the IOTA Contest. QSL via [IU3EDK](#).

-[425DXN # 1677 June 24, 2023] (0630-0728)

JA, JAPAN. Ichy, JH7IPR will be active from Okushiri Island (AS-147) on July 7th-10th. He will be signing **JH7IPR/8** (CW, RTTY, SSB, AM) and JH7IPR/p (FT4, FT8, MSK144, Q65). QSL via [ClubLog's OQRS](#) and LoTW.

-[425DXN # 1678 July 1, 2023] (0707-0714)

K, UNITED STATES. The following stations will be active during the 15th annual "13 Colonies Special Event", which will be held from **1300 UTC on July 1st until 0400 UTC on July 8th**: **K2A** (New York), **K2B** (Virginia), **K2C** (Rhode Island), **K2D** (Connecticut), **K2E** (Delaware), **K2F** (Maryland), **K2G** (Georgia), **K2H** (Massachusetts), **K2I** (New Jersey), **K2J** (North Carolina), **K2K** (New Hampshire), **K2L** (South Carolina), and **K2M** (Pennsylvania), plus 'bonus stations' **WM3PEN** from Philadelphia (the city where the US independence was declared), **GB13COL** from England (QSL direct, see qrz.com for instructions) and **TM13COL** from France (QSL via [F5OGL](#)). Information about the award program can be found on <http://www.13colonies.us/>.

-[425DXN # 1677 June 24, 2023] (0630-0714)

KH6, HAWAII. PVRC members W3LPL, KE3Q, W3AMY and WR3R will be teaming up with KH7U, K8VG, KH6HT and possibly KH6U and KH6ML as **W1AW/KH6** in the IARU HF World Championship (**July 8th 1200Z to July 9th 1200Z**). SSB operations will be from the KH6YY station on Oahu. CW activity will take place from the Big Island (Hawaii) at the KH6LC station. PVRC member WH7W will be one of the ops at KH6LC along with NH6V, AH6KO, KH6KB and KH6LC.

-[ARRL DX Bulletin # 27 July 6, 2023] (0707-0714)

KH8, AMERICAN SAMOA. Yuri N3QQ, Hal W8HC and James KB2FMH will be active as **KH8RRC** from Tutuila (OC-045), American Samoa on **July 4th-18th**. They plan to operate CW, SSB and FT8/FT4 on 80-6 meters from a mountaintop location within the American Samoa National Park. This will be the first ever POTA activity on the island. QSL via [ClubLog's OQRS](#), or direct to [KB2FMH](#), "LoTW afterwards".

-[425DXN # 1676 June 17, 2023] (0630-0721)

LX, LUXEMBOURG. Special callsign **LX9ØRTL** celebrates the 90th anniversary since Radio Luxembourg made its first long wave broadcast. It will be used by various LX operators **from July 1st until the end of the year**. Look for activity on the HF bands SSB, CW and digital modes, as well as via satellite. All QSOs will be confirmed automatically via the DARC bureau; the logs will be uploaded to ClubLog, LoTW and eQSL on a regular basis. See <https://www.qrz.com/db/LX9ØRTL> for more information.

-[425DXN # 1675 June 10, 2023] (0630-0804)

LY, LITHUANIA. Special event station **LYØNATO** will be active on **July 11th-12th**, for the NATO Summit to be held in Vilnius. QSL via LoTW.

-[425DXN # 1679 July 8, 2023] (0707-0714)

LY, LITHUANIA. Special callsigns **LY1933DG**, **LY9ØDG**, **LY9ØFLY**, **LY9ØSD** and **LY9ØSG** will be active on **July 1st-31st** to commemorate the 90th anniversary of the ill-fated flight of Lithuanian pilots Steponas Darius and Stasys Girenas. On July 15, 1933, they attempted a nonstop flight from New York City to Kaunas in a small airplane named "Lituanica". After crossing the Atlantic Ocean, they crashed on July 17th when they were only 650 km short of their final destination. Also active will be six special event stations from Poland, and a certificate will be available (see SP below).

-[425DXN # 1675 June 10, 2023] (0630-0728)

OE, AUSTRIA. Special call signs **OE2XXM** and **OE5XXM** will be active during **July and September** around the international autumn field day in Gosau. QSL via bureau. For more information see: <http://www.qrz.com/db/oe2xxm> and <http://www.qrz.com/db/oe5xxm>.

-[DXNL # 2361 July 6, 2023] (0707-0728)

OH, FINLAND. Bruno, F4JIK will be active as **OH/F4JIK/p** on **July 4th-13th** while touring Finland in his camper van (<https://www.f4jik.fr/>). He plans to operate SSB on 40, 20 and 15 meters from several Finnish Flora & Fauna locations. [TNX F8REF]

-[425DXN # 1678 July 1, 2023] (0630-0714)

OK, CZECH REPUBLIC. Radioklub OK1KVK is QRV with special call sign **OL7ØKVK** until **December 31st** to mark the club's 70th anniversary. QSL via [OK6RP](#).

-[ARRL DX Bulletin # 26 June 29, 2023] (0630-0728)

OX, GREENLAND. Bo, OZ1DJJ is QRV as **OX3LX** from Qaanaaq, IOTA NA-018, until **July 18th**. Activity is on the HF bands, with a focus on 4 and 6 meters. This includes a possible trip to either Herbert Island, IOTA NA-134, or Meteorite Island. QSL via [OZØJ](#), LoTW.

-[ARRL DX Bulletin # 26 June 29, 2023] (0630-0721)

P2, PAPUA NEW GUINEA. Lowell, DU3LZ has been QRV for the past two weeks as **P29LZ**. Listen for him on 40, 20 and 15 meters using SSB and in the future on FT8.

-[ARRL DX Bulletin # 27 July 6, 2023] (0707-0728)

PJ2, CURACAO. The Curacao headquarters call **PJ2HQ** will be QRV in the IARU HF World Championship (**July 8th 1200Z to July 9th 1200Z**) contest from the PJ2T station. They will be handing out the VERONA multiplier.

-[ARRL DX Bulletin # 27 July 6, 2023] (0707-0714)

PJ5, SABA & ST. EUSTATIUS. Look for Peter, **PJ5/PA4O** and Ad, **PJ5/PE6Q** to be active from Sint Eustatius (NA-145) on **July 6th-18th**. They will operate CW, SSB and FT8 on 80-6 meters, and will participate in the IARU HF World Championship as **PJ5C**. QSLs via [ClubLog's OQRS](#).

-[425DXN # 1675 June 10, 2023] (0630-0721)

PJ7, SINT MAARTEN. Ben, PE5B will be QRV as **PJ7/PE5B** until **July 14th**. QSL via LoTW.

-[ARRL DX Bulletin # 27 July 6, 2023] (0707-0714)

S7, SEYCHELLES. Members of the Seychelles Amateur Radio Association (SARA) plan to operate as **S77HQ** in the IARU HF World Championship (**July 8th 1200Z to July 9th 1200Z**) Contest. They will be mostly active on 20, 15 and 10 meters. Manning the stations will be S79VU, S79KW, S79RP and S79JN.

-[ARRL DX Bulletin # 27 July 6, 2023] (0707-0714)

SP, POLAND. Special event stations **3Z9ØLOT**, **HF9ØLOT**, **SN9ØLOT**, **SO9ØLOT**, **SP9ØLOT** and **SQ9ØLOT** will be active on **July 1st-31st** to commemorate the 90th anniversary of the ill-fated flight of the "Lituanica" (see LY above). See <https://logsp.pzk.org.pl/a/lituanica/> for the certificate and more information.

-[425DXN # 1675 June 10, 2023] (0630-0728)

SV, GREECE. John, N4TOL will be active as **SV8/N4TOL/p** from Paros Island until **July 8th**, and from Samothraki Island (EU-174) from **July 10th to 13th**. He will be QRV mostly on 20 meter CW and possibly SSB.

-[ARRL DX Bulletin # 27 July 6, 2023] (0707-0714)

UA, EUROPEAN RUSSIA. Dmitry, R3GM and Igor, UA3EDQ will be QRV as **RI1ZZ** from Kildin Island (EU-082) and a couple of islands (RR-02-100 and RR-02-101) in the Kandalaksha Gulf until **July 8th**. QSL via [RZ3EC](#). Also, the team of R3XDA, RA1QY, RU3EG, RU5D, RZ3EC and UA3EDQ will be active as **RI1OR** from Bolshoy Solovetsky Island (EU-

066) from **July 25th to 29th**. They will operate CW, SSB and digital modes on 160 to 10 meters. A brief activity as **R3RRC/1** from nearby Bolshaya Muksalma is also being planned. QSL via [RZ3EC](#).

-[ARRL DX Bulletin # 27 July 6, 2023] (0707-0728)

UA, EUROPEAN RUSSIA. Celebrating the 30th anniversary of the Russian Robinson Club (R3RRC), several special callsigns are expected to be in use from **July 1st to 31st**:

R3ØRRC, RA3ØRR, RC3ØRR, RD3ØRR, RJ3ØRR, RK3ØRR, RL3ØRR, RM3ØRR, RN3ØRR, RO3ØRR, RT3ØRR, RU3ØRR, RV3ØRR, RW3ØRR, RX3ØRR, RZ3ØRR.

Other stations joining the celebrations include **DR3ØRRC, GBØRRC, HG3ØRRC, II9RRC, KH6RRC, KH8RRC, KL7RRC, LZ3ØRRC, OL3ØRRC and OM3ØRRC.** A number of certificates will be available - see <https://www.qrz.com/db/R3ØRRC> for the details.

-[425DXN # 1677 June 24, 2023] (0630-0728)

VE, CANADA. Chris, VO1CH will be active again as **VO2VC** from Labrador, CQ Zone 2 (WWL GO11po) on **July 4th-10th**. He will focus on 6 meters, and will be QRV on 40-10 meters outside the 6m openings. QSL via [ClubLog's OQRS](#) and LoTW, or direct to [VO1CH](#).

-[425DXN # 1677 June 24, 2023] (0630-0714)

VE, CANADA. Pierre, VE3KTB is QRV as **VYØERC** from Nunavut, Ellesmere Island (NA-008), **until July 12th**. Activity is on the HF bands. This includes being active as **VYØRAC** in the Canada Day contest. QSL via [MØOXO](#).

-[ARRL DX Bulletin # 26 June 29, 2023] (0630-0714)

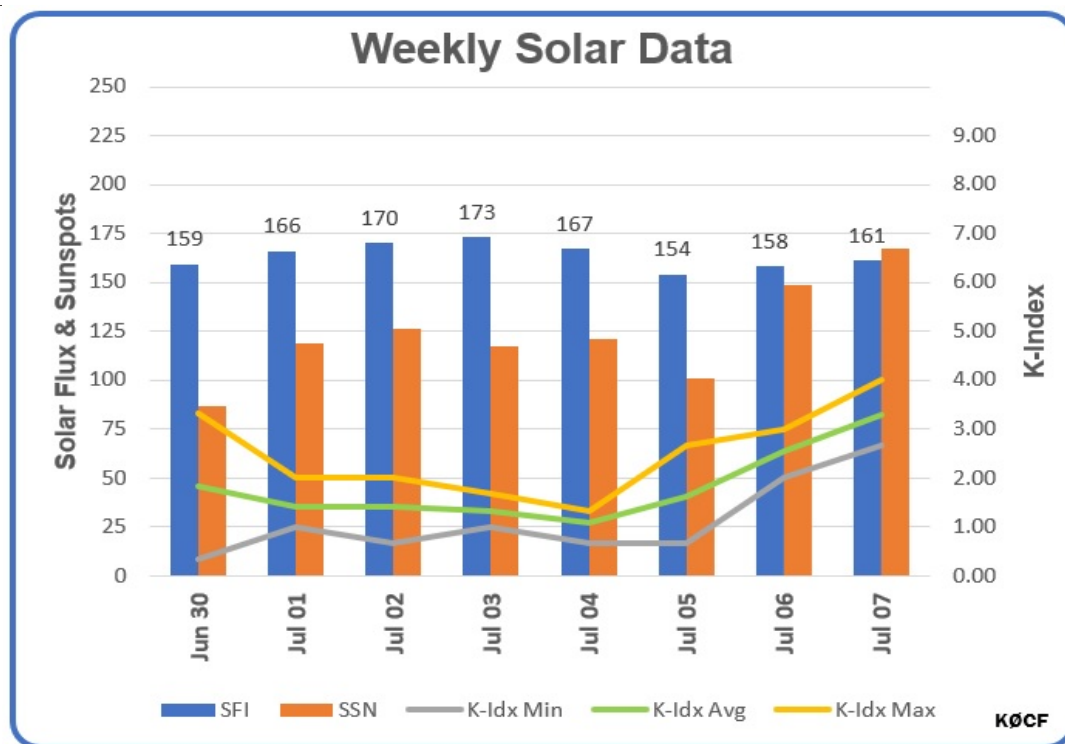
VP9, BERMUDA. G4OSY will be active as **VP9/G4OSY** VP9GE's location from **June 27th to July 8th** on 40-6m (SSB, some CW). QSL via [G4OSY](#).

-[DXNL # 2359 June 21, 2023] (0623-0714)

XZ, MYANMAR. Akio, JE2QIZ is QRV as **XZ2B** from Yangon **until the end of September**. Activity is on 15, 12, 10, and 6 meters using CW. QSL via [JH3SIF](#).

-[ARRL DX Bulletin # 25 June 22, 2023] (0623-0721)

Propagation



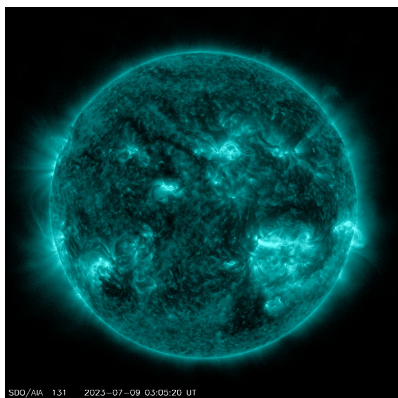
8:30 AM July 8, 2023

The Weekly Solar Data chart plots Solar Flux Index (SFI), Sunspot number (SSN) and Planetary K-Index (K-Idx) for the past 8 days. With 8 Planetary K-index readings each day, only the minimum, average and maximum K-index values are plotted. **Note:** You may click [here](#) or on the chart above to see the same data for the past month.

The Daily Solar Flux Index, Sunspot number, Planetary K-index, Solar Flux predictions and Solar Flare data used in this bulletin have been collected by KØCF from the U.S. Department of Commerce's NOAA Space Weather Prediction Center.

The propagation graphs above are the creations of KØCF and are unique in space weather reporting.

NASA's current view of the Sun at a wave-length of 131 Angstroms. This wavelength shows incredible solar detail.



Click [here](#) or on the image to view as a full screen 48-hour video loop. It is fascinating!

Propagation Summary (As of 8:36 AM July 8, 2023)

The average solar flux for the week of Friday, June 30th through July 7th was up 7 points from the previous week, with a weekly high of 173 on Monday, July 3rd, followed by a low of 154 on July 5th.

The average sunspot count was down by 17 points for the week of June 30th to July 7th, peaking at 167 on Friday, July 7th after a weekly low of 87 on June 30th.

The Planetary K-index weekly average for Friday, June 30th to July 7th was 2.5, ranging from a 0.33 minimum to a high of 4.00 on Friday, July 7th, producing generally quiet

geomagnetic conditions.

Solar flare activity for June 30th through July 8th has been high with 8 flares, the largest of which was a major X 1.0 event on Sunday, July 2nd.

From the NOAA Space Weather Prediction Center, here are the probabilities of major solar flares for the next 3 days:

Date	M-Flares	X-Flares
July 8	35%	5%
July 9	35%	5%
July 10	35%	5%

Looking ahead, here is the NOAA Space Weather Prediction Center forecast of 10.7 cm radio flux and maximum Planetary K-index (Kp) for the next 12 days:

Date	Flux	Kp
Jul 8	155	2
Jul 9	155	4
Jul 10	155	3
Jul 11	160	2

Date	Flux	Kp
Jul 12	165	5
Jul 13	170	5
Jul 14	175	3
Jul 15	175	3

Date	Flux	Kp
Jul 16	175	3
Jul 17	175	3
Jul 18	175	3
Jul 19	170	3

Solar Flares This Week (As of 8:40 AM July 8, 2023)

Date	UTC	Mag.
Jul 7	0629	M 4.0
Jul 6	1049	M 1.0
Jul 5	1858	M 1.0
Jul 4	1235	M 1.4
Jul 3	0653	M 1.3
Jul 2	2314	X 1.0
Jul 2	0235	M 2.0
Jul 1	2223	M 1.1

Highs for Cycle 25

Solar Flux: 234 on January 15, 2023.

Sunspots: 209 on February 11, 2023.

Favorite Propagation web sites

Excellent Maximum Usable Frequency map: <https://prop.kc2g.com/>

<https://www.spaceweather.com/>

<https://www.solarham.net/>

<https://dx.qsl.net/propagation/>

A Propagation Tutorial

The solar X-ray flux tracks solar activity and solar flares. Solar flux, which can vary from as low as 50 to as high as 300, influences the level of ionization in the F2 region of the

ionosphere, providing a very good prediction of HF DX conditions. The higher the solar flux, the better conditions will be for the higher HF frequencies and even 6 meters. However, the levels need to be maintained for some days to allow ionization in the F2 layer to build up. A solar flux of 150 results in good HF band conditions, while levels of 200 and up can provide great conditions.

Large X-ray flares on the sun can increase the ionization of the D layer of the ionosphere (a lower layer) on the sunlit side of the Earth, greatly attenuating or blocking HF radio transmissions for up to a half hour. Solar flares often produce Coronal Mass Ejections (CMEs) which, if Earth directed, can lead to geomagnetic storms. Some large flares are also accompanied by strong radio bursts that may interfere with other radio frequencies and cause problems for satellite communication and radio navigation (GPS).

The Planetary K-index is a measure of the magnitude of geomagnetic storms and is an excellent indicator of disturbances in the Earth's magnetic field. A level of 1 or 2 represents quiet geomagnetic conditions; a reading of 3 or 4 may cause some propagation deterioration; 5 and 6 are minor to moderate geomagnetic storms; and 7 to 9 are strong, severe, and extreme storm conditions. Strong geomagnetic storms can trigger Auroral displays and cause HF radio blackouts. Higher geomagnetic activity also has the adverse effect of lowering maximum usable frequencies, much like lower solar flux does.

For best conditions, the solar flux should be above 150 for a few days with the K index below 2. When these conditions are met, some good DX is likely!

-[Compiled from information on NOAA.gov and other sources]

Selected Upcoming Contests

Contest	Start		End		Web Site
IARU HF World Championship	Jul 8	1200Z	Jul 9	1200Z	Rules
CQ Worldwide VHF Contest	Jul 15	1800Z	Jul 16	2100Z	Rules
North American QSO Party, RTTY	Jul 15	1800Z	Jul 16	0600Z	Rules
RSGB IOTA Contest	Jul 29	1200Z	Jul 30	1200Z	Rules
10-10 Int. Summer Contest, SSB	Aug 5	0001Z	Aug 6	2359Z	Rules
North American QSO Party, CW	Aug 5	1800Z	Aug 6	0600Z	Rules
WAE DX Contest, CW	Aug 12	0000Z	Aug 13	2359Z	Rules
Maryland-DC QSO Party	Aug 12	1400Z	Aug 13	0400Z	Rules
Kentucky State Parks on the Air	Aug 12	1400Z	Aug 12	2200Z	Rules
North American QSO Party, SSB	Aug 19	1800Z	Aug 20	0600Z	Rules
ARRL Rookie Roundup, RTTY	Aug 20	1800Z	Aug 20	2359Z	Rules
Hawaii QSO Party	Aug 26	0400Z	Aug 28	0400Z	Rules
World Wide Digi DX Contest	Aug 26	1200Z	Aug 27	1200Z	Rules
YO DX HF Contest	Aug 26	1200Z	Aug 27	1200Z	Rules
Kansas QSO Party	Aug 26	1400Z	Aug 27	2000Z	Rules
Ohio QSO Party	Aug 26	1600Z	Aug 27	0400Z	Rules
All Asian DX Contest, Phone	Sep 2	0000Z	Sep 3	2400Z	Rules

CWOps CW Open	Sep 2	0000Z	Sep 2	2359Z	Rules
Colorado QSO Party	Sep 2	1300Z	Sep 3	0400Z	Rules
Tennessee QSO Party	Sep 3	1800Z	Sep 4	0300Z	Rules
WAE DX Contest, SSB	Sep 9	0000Z	Sep 10	2359Z	Rules
North American Sprint, CW	Sep 10	0000Z	Sep 10	0359Z	Rules

-[Contest data courtesy of the [WA7BNM Contest Calendar](#)]

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